Contents of Volume 16

Volume 16 No. 1 May 1996

D. H. CHA, H. S. CHO and S. KIM / Design of a Force Reflection Controller for Telerobot Systems using Neural Network and Fuzzy Logic 1–24

MIOMIR VUKOBRATOVIĆ and OLGA TIMČENKO / Experiments with Nontraditional Hybrid Control Technique of Biped Locomotion Robots 25–43

CHIA-JU WU and CHING-HUO HUANG / Back-Propagation Neural Networks for Identification and Control of a Direct Drive Robot 45–64

CHI-HAUR SHEU and KUU-YOUNG YOUNG / A Heuristic Approach to Robot Path Planning Based on Task Requirements Using a Genetic Algorithm 65–88

I. ANDREADIS, I. KARAFYLLIDIS, P. TZIONAS, A. THANAILAKIS and PH. TSALIDES / A New Hardware Module for Automated Visual Inspection Based on a Cellular Automaton Architecture 89–102

Volume 16 No. 2 June 1996

SAID M. MEGAHED / Symbolic Computation of Robot Models for Geometric Parameters Identification with Singularity Analysis 103–121

N. RAHMANIAN-SHAHRI and I. TROCH / Collision-Avoidance for Redundant Robots through Control of the Self-Motion of the Manipulator 123–149

CHIA-JU WU / On the Representation and Collision Detection of Robots 151–168

G. EFTHIVOULIDIS, N. VLASSIS, P. TSANAKAS and G. PAPAKONSTANTINOU / An Experiment for Truly Parallel Logic Programming 169–184

ANDREAS BASTIAN and JORGE GASÓS / Selection of Input Variables for Model Identification of Static Nonlinear Systems 185–207

Volume 16 No. 3 July 1996

KRZYSZTOF P. JANKOWSKI and HODA A. ELMARAGHY / Task Space Decomposition for Invariant Control of Constrained Robots 209–227

H. DING and S.P. CHAN / A Real-Time Planning Algorithm for Obstacle Avoidance of Redundant Robots 229–243

GUY JUMARIE / Tracking Control of Manipulators with Active Inertias by Using Sliding Lagrangrian 245–267

K. P. VALAVANIS, J. ZHENG and G. PASCHOS / A Total Color Difference Measure for Segmentation in Color Images 269–312

Volume 16 No. 4 August 1996

TAREK M. SOBH and RUZENA BAJCSY / A Discrete Event Framework for Autonomous Observation Under Uncertainty 315–385

ANTONIO BICCHI, GIUSEPPE CASALINO and CORRADO SANTILLI / Planning Shortest Bounded-Curvature Paths for a Class of Nonholonomic Vehicles Among Obstacles 387–405

JUAN DOMINGO and JOAN PELECHANO / Measurement and Storage of a Network of Jacobians as a Method for the Visual Positioning of a Robot Arm 407–422

Index of Authors to Volume 16 423

Index of Keywords to Volume 16 425–426

Contents of Volume 16 427–428